



Fulton Sanitary Landfill Information Sheet

May 12, 2010

History

The Fulton Sanitary Landfill was permitted in 1978 under permit number 102703. The landfill was an expansion of existing permit number 102701, originally issued in 1975. The landfill is approximately 80 acres in size. The facility is owned by the City of Fulton (City). In 2000, methane was detected in groundwater monitoring wells, resulting in an upgrade to the gas monitoring system in 2001. The City notified nearby residents that methane was migrating from the landfill in 2000 and in July 2004 when methane detectors were installed in the structures nearest the landfill. The City installed passively vented wells in 2003 and 2004, in an attempt to control the migration. In 2008, the City installed an active gas extraction system in an attempt to address the migration.

Methane Migration and Monitoring Wells

Although the City continued to make upgrades to the active extraction system, gas concentrations in monitoring wells continued to exceed the regulatory limits. In response to these ongoing methane violations, the Department issued the City a Notice of Violation (NOV) on May 6, 2010. The NOV required the City to notify the fire department and expand the notification range to all properties within 1,000 feet of any monitoring wells exceeding the regulatory limit. The notification describes the situation at the landfill and the potential for methane migration. The following gas monitoring wells have exceeded the regulatory limit for methane at the property boundary within the past year: GP-01, GP-05, GP-07, GP-10, GP-12, GP-13, GP-14, TMP-1, and TMP-2. A map showing the location of the gas monitoring wells is attached.

Summary of Recent Activity at Site

In response to the NOV issued May 6, 2010, the City has notified the local fire department. The City is in the process of sending notification letters to property owners who are within 1,000 feet of the wells with elevated methane concentrations. The City will also offer to conduct monitoring inside structures and provide methane detectors to those who desire these safety precautions.

If a property owner receives a notification letter from a landfill, they are being sent the letter as a precautionary measure to ensure they are aware of the potential for landfill gas migration in the area. Landfill gas is a term for a mixture of gases generated during the decomposition of waste at a landfill and includes methane (CH₄), carbon dioxide (CO₂)

and trace constituents of many other contaminants. The migration of methane from a landfill is a concern because methane is explosive within a certain range of concentrations. Methane is a colorless and odorless gas. The Department encourages property owners or tenants to be aware of the potential for methane migration in the area.

The Department's Solid Waste Management Program will continue working with the City to develop and implement a remedial system that reduces methane concentrations in monitoring wells at the property boundary and controls it on-site.

For More Information

Mr. J.C. Miller
Fulton Sanitary Landfill
573-642-3421

Department of Natural Resources
Solid Waste Management Program
(573) 751-5401 or 800-361-4827
www.dnr.mo.gov/env/swmp/methane.htm